

SEQUENCE LISTING

<110> KURCSAWA, Keiko  
KAJIYAMA, Naoki

<120> GENE ENCODING PROTEIN HAVING THE ABILITY TO REGENERATE LUCIFERIN, NOVEL  
RECOMBINANT DNA, PROCESS FOR THE PREPARATION OF PROTEIN HAVING THE ABILITY TO  
REGENERATE LUCIFERIN

<130> 221609US0PCT

<150> PCT/JP00/06527

<151> 2000-09-22

<150> JP285258/1999

<151> 1999-10-06

<160> 11

<170> PatentIn version 3.1

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<212> DNA

<213> Photinus pyralis

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<221> misc\_feature

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Asp Thr Val Glu Lys Thr Phe His Lys Tyr Val Pro Ser Gln Lys Lys  
 35 40 45

Tyr Thr Phe Cys Lys Val Asp Lys Leu Val Ser Phe Ile Ile Pro Leu  
 50 55 60

Ala Gly Ser Pro Gly Arg Phe Val Val Ser Leu Glu Arg Glu Ile Ala  
 65 70 75 80

Ile Leu Thr Trp Asp Gly Val Ser Ala Ala Pro Thr Ser Ile Glu Ala  
 85 90 95

Ile Val Asn Val Glu Pro His Ile Lys Asn Asn Arg Leu Asn Asp Gly  
 100 105 110

Lys Ala Asp Pro Leu Gly Asn Leu Trp Thr Gly Thr Met Ala Ile Asp  
 115 120 125

Ala Gly Leu Pro Val Gly Pro Val Thr Gly Ser Leu Tyr His Leu Gly  
 130 135 140

Ala Asp Lys Lys Val Lys Met His Glu Ser Asn Ile Ala Ile Ala Asn  
 145 150 155 160

Gly Leu Ala Trp Ser Asn Asp Leu Lys Lys Met Tyr Tyr Ile Asp Ser

165

170

175

Gly Lys Arg Arg Val Asp Glu Tyr Asp Tyr Asp Ala Ser Thr Leu Ser  
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Ile Ser Asn Gln Arg Pro Leu Phe Thr Phe Glu Lys His Glu Val Pro  
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Gly Tyr Pro Asp Gly Gln Thr Ile Asp Glu Glu Gly Asn Leu Trp Val  
210 215 220

Ala Val Phe Gln Gly Gln Arg Ile Ile Lys Ile Ser Thr Gln Gln Pro  
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Glu Val Leu Leu Asp Thr Val Lys Ile Pro Asp Pro Gln Val Thr Ser  
245 250 255

Val Ala Phe Gly Gly Pro Asn Leu Asp Glu Leu His Val Thr Ser Ala  
260 265 270

Gly Leu Gln Leu Asp Asp Ser Ser Leu Asp Lys Ser Leu Val Asn Gly  
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Lys Val Lys Leu  
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